



## Discovery Day

Johnson STEAM Academy students participate in hands on, elective classes on Discovery Days. Students sign up for their top three class choices and are placed in a class, with efforts made to place students in an area of preference. These elective classes are led by a classroom teacher or member of the admin team and are supported by community volunteers, with student interest in the focus. The multi-grade (Kindergarten through 2nd grade and 3rd-5<sup>th</sup> grade) offerings provide students with cross-graded leadership and collaboration opportunities. The 21<sup>st</sup> century skills are deeply imbedded in the learning on these days. Discovery Day classes take place during the school day from 9:30 a.m-1:30 p.m. on early dismissal Friday's, five times a year.

### Friday, December 2<sup>nd</sup>, 2016

#### **STEAM Team Day Classes being offered in Kindergarten through 2<sup>nd</sup> grade**

- Coding with ScratchJr
- Frozen Water
- JSA Inspectors
- Clever Concoctions
- Yoga and Mindfulness
- Adventures in Sand
- Creative Cooking
- Braiding
- Potions

#### **STEAM Team Day Classes being offered in 3<sup>rd</sup> through 5<sup>th</sup> grade:**

- Sweet Dreams Sewing
- Electrical Art
- Volleyball
- Healthy Snacks
- Engineering Challenges
- Paper Flowers
- Beaded Key Chains
- Salsa! Salsa! Salsa!
- Feathered Friends
- Build a Mini Golf Course
- Art & Architecture

## Kindergarten through 2<sup>nd</sup> grade

**Coding with ScratchJr:** Students will learn to program their own interactive stories and games. In the process, they learn to solve problems, design projects, and express themselves creatively using technology!

**Frozen Water:** Come join us as we learn about water and how it changes when it is heated or cooled. We will be learning about how habitats can change based on the temperature of the water. The children will conduct experiments with various forms of water and decide which is best for certain types of animals.

**JSA Inspectors:** Are you creative? Do you like to ask questions? Do you enjoy finding out how things work? If you answered yes to any of these, you might have what it takes to be a JSA Inspector!! Join the team and you will have the chance to do several investigations and explore more about cause and effect!

**Clever Concoctions:** Did you know we use a variety of simple machines to make our lives easier? Do you know what a simple machine is? Have you ever wondered how they are created or what they do? Become an expert in simple machines. We will explore, design and create different simple machines like a catapult and pulley system.

**Yoga and Mindfulness:** The students will do various yoga routines throughout the day. They will learn the basics of yoga, and the students will make up their own yoga routines. They will also learn about mindfulness, and design tools to help them with their emotions.

**Adventures in Sand:** Students will learn about sand, learn about how sand can be made into glass, and will have an opportunity for sand exploration.

**Creative Cooking:** Students we will learn about healthy choices and how to prepare healthy and delicious snacks without using a stove.

**Braiding:** In this discovery day group, students will learn to braid a variety of different things including hair, friendship bracelets, paper, and much more! We will learn that there are many things that can be braided once you get the technique down.

**Potions:** Come join us for a day of potion making! You will get to explore and create different mixtures as we learn about how ingredients react when put together.

## 3<sup>rd</sup> through 5<sup>th</sup> grade

**Sweet Dreams Sewing:** Sew and decorate a pillow of your own! What are different pillows made from? Why do we dream? What do dreams mean in different cultures? IN this class, students will machine- and hand-stitch a small stuffed toy and soft flannel blanket.

**Electrical Art:** In this Discovery Day we will be using copper tape, LED lights and batteries to create cards that light up! We will first design a card and create a pathway to an LED light to create a card that has a light. What a fun way to combine art and engineering!

**Volleyball:** Students will learn the fundamentals of positions, offense, defense, basic rules, and scoring. They will work collaboratively to create team names and use sportsmanship guidelines as they demonstrate their moves in game play.

**Healthy Snacks:** Children will make healthy snacks with a winter flare! These snacks will be fun and easy to make. Recipes and snacks will go home with the children

**Engineering Challenges:** Do you like engineering challenges AND Star Wars? If you do, get ready to use the force to do some engineering in a Galaxy Far, Far Away! My droids and I will have five timed engineering challenges throughout the day: Droid Factory Challenge, Marshmallow launcher Challenge, Jedi Magnet Maze Challenge, Clone Troopers Challenge, Working Light Saber Challenge.

**Paper Flowers:** We will be using various types of paper to create several kinds of flowers. We will explore different ways we can fold and cut the paper to create our flowers. We will be able to use our creativity to make them personalized and unique.

**Beaded Key chains:** Students will use pony beads and ribbon to create fun key chains. They can make lizards, hearts, ladybugs, flowers, frogs, smiley faces, etc.

**Salsa! Salsa! Salsa!:** Students will learn about where salsa comes from, taste different store salsas and then research and create their own recipes.

**Feathered Friends:** It's getting cold outside and it's time to help our feathered friends. We will be making all kinds of amazing bird feeders. You will even get to build your own birdhouse to take home.

**Build a Mini Golf Course:** Using STEAM Lab materials help create a mini golf course. Each small group will be responsible for designing at least two holes of the course based on specific design requirements. At the end of our day we will put it all together and play a round or two!

**Art and Architecture:** We will look at art and architecture of the world. We will build or design houses or buildings using various materials. If the weather is nice, we will tour the neighborhood with an "expert."

